

SIDOROV, Fedor Fedorovich; SINYAKOVA, L.A., red.; BARANOVA, L.G.,  
tekhn. red.

[Growing ear corn for silage in the northwestern zone] Vyrashchivanie kukuruzy s pochatkami na silos v severo-zapadnoi zone. Leningrad, Sel'khozizdat, 1962. 70 p. (MIRA 15:11)  
(Russia, Northwestern—Corn (Maize))

CHEREMOVSKIY, Yuriy Ivanovich; SIDOROV, Fedor Georgiyevich; MIKHAYEV,  
Nikolay Zakharovich; PICHAK, Fedor Ivanovich; ALEKSEEV, Georgiy  
Petrovich; KHARITONCHIK, Ye.M., prof., retsenzent; CHEREMENOV,  
V.M., inzh., retsenzent; RYABCHENKO, P.G., inzh., retsenzent;  
KALOSHIN, A.I., inzh., retsenzent; PICHAK, F.I., kand.tekhn.nauk.  
red.; YERMAKOV, N.P., tekhn.red.

[Manual for tractor drivers] Posobie traktoristu. 1zd.2., perer.  
1 dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry.  
1960. 592 p. (MIRA 13:12)

(Tractors)

L 1704-66 EWT(l)/EWT(m)/EWP(w)/T/EWP(t)/EED-2/EWP(b)/EWA(c) IJP(c) JD/RW

ACCESSION NR: AP5021078

29 UR/0288/65/000/002/0103/0109

AUTHOR: Drokin, A. I.; Sudakov, N. I.; Sidorov, F. K.; Yarichina, K. V.

TITLE: Magnetic crystallographic anisotropy and losses due to rotary hysteresis  
in single crystals of cobalt iron ferrites

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 2, 1965, 103-109

TOPIC TAGS: magnetic anisotropy, crystal anisotropy, magnetic hysteresis, single crystal, ferrite, cobalt alloy, iron alloy

ABSTRACT: Object of the study was investigation of the temperature dependence of the anisotropic constants for single crystals of cobalt iron ferrites over a broad temperature interval, the effect of thermomagnetic treatment on the curves for the mechanical moments, and losses due to rotary hysteresis. The samples had the following composition:  $(\text{Co}_{0.4} \text{Fe}_{0.6})_2 \text{O}_4$  (with 1.2-1.4 mole% excess iron). To eliminate internal stresses, the samples were annealed for 24 hours at 600°C with subsequent slow cooling. The constants of magnetic crystallo-

Card 1/3

L 1704-66

ACCESSION NR: AP5021078

graphic anisotropy were determined by measuring the rotary mechanical moments acting on the sample in the field of a rotating electromagnet. Measurement error did not exceed 3%. Temperature interval was from the temperature of boiling oxygen to the Curie point.<sup>10</sup> Losses due to rotary hysteresis were determined by planimetric measurement of the area between the curves for the mechanical moments during forward and reverse rotation of the magnetic field in the plane. Error was 6-8%. Magnetic saturation was determined by a ballistic method, and the initial magnetic permeability by the resonance method at a frequency of 10 megacycles. The first constant of magnetic crystallographic anisotropy for the ferrites tested increases with a decrease in the temperature, at first slowly and then, in the temperature interval 400-200K, rapidly, and then again slowly, always remaining positive. At room temperature, it is equal to  $2.9 \cdot 10^8$  erg/cm<sup>3</sup>; at the temperature of boiling oxygen it is  $7.48 \cdot 10^8$  erg/cm<sup>3</sup>. Thermomagnetic treatment of a single crystal (heating from the temperature of boiling oxygen to room temperature in a field of 10,000 oersteds) causes induced anisotropy. At room temperatures and above, losses due to rotary hysteresis have normal character. They increase with an increase in the field, attain a maximum, and then decline.

Card 2/3

L 1704-66  
ACCESSION NR: AP5021078

12

to zero. At low temperatures, these losses are very great and do not completely disappear even in a field of 40,000 oersteds. As a result of thermomagnetic treatment, losses due to rotary hysteresis decrease, their maximum shifts to the side of high fields, and they disappear in lower fields. "In conclusion we express our deep indebtedness to T. M. Perekalina and A. A. Askochenskiy for furnishing us the samples of single crystal ferrites." Orig. art. has: 3 formulas and 6 figures

ASSOCIATION: Institut fiziki, Sibirskogo otdeleniya AN SSSR, Institut tsvetnykh metallov im. M. I. Kalinina, Krasnoyarsk (Institute of Physics, Siberian Branch  
AN SSSR, M. I. Kalinin Institute of Nonferrous Metals, Krasnoyarsk)<sup>44,55</sup>

SUBMITTED: 10Feb63

ENCL: 00

SUB CODE: SS

NR REF SOV: 005

OTHER: 014

Card 3/3 DP

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6

SIDOROV, G.A., inzh.

Engineering structures built by the Road-Operating Sections.  
Avt.dor. 22 [i.e.2] no.9:21 S '60. (MIRA 13:9)  
(Bridges, Concrete)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6"

SIDOROV, G. F., gornyy inzhener

Determination of the economic efficiency of the coefficient  
of use of boreholes. Gor. zhur. no.11:11-14 N '62.  
(MIRA 15:10)

(Boring—Costs) (Blasting—Costs)

SIDOROV, G.F.

Manufacture of glove leather from imported pickled goatskin.  
Kozh. obuv. prom. 7 no. 11:42 N '65 (MIRA 19:1)

SIMOROV, G.O.

Drying of retted straw in a horizontal layer. Tekst.prom. 21  
no.9:9 S '61. (MIRA 14:10)

1. Direktor Krestetskogo l'nozavoda Novgorodskogo l'nostresta  
Lensovmarkhoza,

(Flax--Drying)

24.6710

AUTHORS:

Babin, A. I., Luk'yanov, S. Yu., Severnyy, A. B., Sidorov, G. G.,  
Sinitsyn, V. I., Steshenko, N. V.  
ion of hydrogen lines broadening in a powerful pulsar  
observatoriya.

**TITLE:**

An investigation of hydrogen lines from  
discharge  
Akademiya nauk SSSR. Krymskaya astrofizicheskaya observatoriya.  
Izvestiya, v. 27, 1962, 52 - 70

## TEXT:

TEXT: Emission hydrogen spectrum of solar flares shows a great similarity with the spectrum of high-temperature hydrogen plasma glowing in a pulse discharge of high intensity. Therefore, the latter spectrum was investigated in the present study by methods used in studying physical processes on the Sun. At first the problem of broadening of hydrogen emission is considered. The equipment used and the methods of carrying out measurements are described. The dispersion of a spectrograph with a diffraction grating ( $\sim 1.5 \text{ \AA/mm}$ ) is given. The main results of the spectrophotometric study of broadening of hydrogen emission ( $H_{\alpha} - H_{\delta}$ ) wings are as follows: 1) The

Card 1/3

S/712/62/027/000/003/015  
A001/A101

An investigation of hydrogen lines...

emission of hydrogen line wings (extending to 30 - 40 Å), when observed in the spectra of a self-constricted pinch perpendicular in direction, turns out to be broadened due mainly to the linear Stark-effect (at the initial pressure  $p_0 = 0.1$  mm Hg); 2) at  $p_0 = 0.5$  mm Hg the emission extends to 50 - 80 Å and is broadened in the wing, probably due mainly to the quadratic Stark-effect; 3) when the spectra are observed along the plasma pinch, the broadening of hydrogen emission in the wings of the lines is due to macroscopic motions of the plasma with velocities of the order of  $10^8$  cm/sec. The intensity variations in the wings are well explained by the hypothesis on the jet-type plasma motion directed along the discharge axis with velocity gradients; 4) when the spectra are observed outside the axis of discharge, the broadening of hydrogen emission (at  $p_0 = 0.1$  mm Hg) is entirely due to the linear Stark-effect in both transversal and longitudinal direction (next to the pinch). The mechanism of hydrogen emission broadening in a powerful discharge is similar to broadening of emission lines of solar flares. The variation of intensity in the line wings depends essentially on the direction along which the spectrum of plasma emission is observed. It is concluded that the analogy between the powerful pulse discharges in laboratory conditions and the phenomenon of chromospheric flares on

Card 2/3

41282

S/035/62/000/010/031/128  
AC01/A101

AUTHORS: Babin, A. N., Luk'yanov, S. Yu., Severnyy, A. B., Sidorov, G. G.,  
Sinitsyn, V. I., Steshenko, N. V.

TITLE: Investigation of hydrogen line broadening in a powerful pulse  
discharge

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 50,  
abstract 10A356 ("Izv. Krymsk. astrofiz. observ.", 1962, v. 27,  
52 - 70)

TEXT: The authors have taken spectra of a powerful pulse hydrogen dis-  
charge by means of a spectrograph with a diffraction echelle-grating (dis-  
persion ~ 1.5 Å/mm). A spectrophotometric study of broadening of hydrogen emis-  
sion wings ( $H\alpha - H\beta$ ) leads to the following results: 1) In observations of  
spectra of a self-pinched column in perpendicular direction, emission of wings  
of hydrogen lines (extending to 30 - 40 Å) proves to be broadened due to the  
linear Stark-effect (at the initial pressure  $p_0 = 0.1$  mm Hg); 2) at  $p_0 = 0.5$  mm  
Hg emission extends up to 50 - 80 Å and is broadened in the wing mainly due,

Card 1/2

S/035/62/000/010/031/128

AC01/A101

Investigation of hydrogen line broadening in a...

probably, to the quadratic Stark-effect; 3) in observations of spectra along the plasma column, broadening of hydrogen emission in wings of the lines is caused by macroscopic motion of the plasma with speeds of  $\sim 10^8$  cm/sec. The variation of intensity in wings is well explained by the assumption of oriented, along discharge axis, motion of plasma of jet-type with velocity gradients; 4) in observations beyond the discharge axis, both in the transverse and longitudinal direction (alongside of the column), broadening of hydrogen emission (in case of  $p = 0.1$  mm Hg) is fully caused by the linear Stark-effect. A comparison of the cited results with the data on emission broadening in lines of solar flares points to analogous causes of broadening and on the dependence of the broadening aspect on direction along which the observation is being performed. There are 9 references.

Author's summary

[Abstracter's note: Complete translation]

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

**CIA-RDP86-00513R001550510008-6**

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6"

SIRGENY, I. I. and A. A. TRAVIN.

Izgotovlenie i remont shtampov; uchebn., posobie po povysheniiu kvalifikatsii  
rabochikh mashinostroitelei. predpriiatii. Moskva, Mashgiz, 1949. 110 p.  
diaprs.

(Manufacturing and repairing dies.)

DLC: TS253.S5

SC: Manufacturing and Mechanical Engineering in the Soviet Union,  
Library of Congress, 1953.

SOV/68-58-9-7/21

AUTHORS: Siderov, G.I., and Muchnik, D.A.

TITLE: Some Remarks on a Typical Design of a Coke Grading Plant  
(Zamochaniyu po tipovomu proyektu koksosortirovki)

PERIODICAL: Koks i Khimiya, 1958, Nr 9, pp 27-31 (USSR)

ABSTRACT: Deficiencies in the typical installations of coke grading plants (coaling wharfe - screening plant - dispatching plant) are discussed. The main points: the length of coke wharfes is usually insufficient and overcrowding of conveyors.

ASSOCIATION: Voroshilovskiy koksokhimicheskiy zavod  
(Voroshilovsk Coking Works)

Card 1/1

SIDOROV, G.I.; BRISKIN, A.I.; BAKULEV, A.N., professor, deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR, direktor; MASHKOVSKIY, M.D., professor, zaveduyushchiy.

Application of diplacin, a Soviet preparation with curare-like action, in anesthesia in surgery. Khirurgia no.4:48-56 Ap '53. (MLRA 6:6)

1. Fakul'tetskaya khirurgicheskaya klinika II Moskovskogo meditsinskogo instituta imeni I.V. Stalina (for Sidorov, Briskin and Bakulev). 2. Akademiya meditsinskikh nauk SSSR (for Bakulev). 3. Otdel farmakologii Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze (for Sidorov, Briskin and Mashkovskiy). (Anesthesia)

U.S. AIR FORCE  
REF ID: A67027 JUL 55

MOROZOV, I. G.; INYUTIN, Ye. I.; SIDOROV, G. I.

Kinetics of a reactor with linearly increasing reactivity.  
Inzh.-fiz. zhur, 6 no.1:73-78 Ja '63. (MIRA 16:1)

(Nuclear reactors)

REF ID: A6A(s)-2/EMT(n)/EPF(c)/EPF(n)-2/EWG(m)/EMR/EMP(j)/EMP(t)/EMP(b)  
100-1-3-4/m-4 LIP(c) JD/LI/JG/GS/RM  
DOC. IDENT NO: AT5007909 S/0000/64/000/000/0194/0207

AUTHOR: Yurova, L. N.; Polyakov, A. A.; Klenov, G. I.; Morozov, I. G.;  
Inyutin, Ye. I.; Sidorov, G. I.

TITLE: A study of the physical characteristics of uranium-hydrogen containing  
reactors on a critical stand

SOURCE: Zhurnal Institut atomnoy energii. Issledovaniya po primeneniyu organi-  
cheskikh teploprisileley-soderzhitelyey v energeticheskikh reaktorakh (Research on  
the use of organic heat-transfer agents and moderators in power reactors).  
Moscow, Atomizdat, 1964, 194-207

TOPIC TAGS: nuclear power plant, thermal reactor, power reactor, organic reactor,  
coolant, heat transfer agent, organic moderator, uranium hydrogen reactor,  
isopropylbiphenyl, critical mass

ABSTRACT: The results of an experimental comparison of organic and aqueous mod-  
erators under identical conditions on a critical stand are presented. In these  
studies, monoisopropylbiphenyl was used as the organic moderator, the purpose  
of the experiment being to determine the critical mass of uranium in systems with  
organic and aqueous moderators for a given construction of fuel elements. The  
critical stand used is described, and the distribution of thermal neutrons is  
card [1/2]

L 4000-65  
ACQUISITION NR: AT5007909

analyzed. The results show that the values of the migration area for media with monoisopropylbiphenyl lie below the values for aqueous moderators by 40-70% for identical values of  $Q_1/Q_5$ . Measurements were also carried out at different ratios of the active zone to determine the effect of the geometry of the active zone on the critical masses. These investigations showed that in the region where  $D_{equiv} \approx 1$  when  $Q_1/Q_5 = 200-300$  for monoisopropylbiphenyl and  $Q_1/Q_5 = 300-400$  for aqueous moderators, the values of the critical masses are essentially independent of the geometry of the active zone. Orig. art. has: 11 figures, 2 tables and 7 formulas.

ASSOCIATION: None

SUBMITTED: 01Aug64

ENCL: 00

SUB CODE: MP, TD

NO REF Sov: 003

OTHER: 003

Card 2/2

ACC NR: AP6021628

SOURCE CODE: UR/0089/66/020/003/0264/0265

AUTHOR: Sidorov, G. I.

52

B

ORG: none

TITLE: Influence of water and beryllium reflectors on the criticality of hydrogen-containing uranium reactors

SOURCE: Atomnaya energiya, v. 20, no. 3, 1966, 264-265

TOPIC TAGS: nuclear reactor criticality, reactor reflector, hydrogen, water, beryllium, enriched uranium

ABSTRACT: This is an abstract of paper no. 66/3495, submitted to the editor and filed, but not published. The article contains results of measurements of the effects of water and beryllium reflectors in thermal reactors with fuel elements of highly enriched U<sup>235</sup>. The ratio of the concentration of the hydrogen nuclei to the concentration of the U<sup>235</sup> nuclei was varied between 165 and 492. On the basis of the results, a method is proposed for estimating the influence of the reflectors on the criticality in terms of the solution obtained for the reactor without the reflector, to which a correction is added for the difference between the dimensions of the bare reactor and the active zone of the reactor with the given reflector plus the linear

Card 1/2

UDC: 621.039.513.5

ACC NR: AP6021628

extrapolation length.

SUB CODE: 18/ SUBM DATE: 30Oct65

Card 2/2 ey/h

KUZ'MITSKAYA, K.A.; NAUMOV, V.I.; SIDOROV, G.N., inzh., retsenzent;  
YESIMTOVSKIY, M.G., inzh., retsenzent; BRONSHTEYN, Ya.I.,  
kand. tekhn. nauk, dots., red.; DLUGOKANSKAYA, Ye.A., tekhn.  
red.  
[Organization of a tire shop in a garage] Organizatsiya shin-  
nogo khozaiistva v garazhe. Moskva, Mashgiz, 1952. 102 p.  
(MIRA 16:7)

(Tires, Rubber)

S.D.P.C.V. 6. P

SHABALIN, N.S.; LOBANOVA, Ye.V.; MIKHEYEV, D.I.: SIDOROV, G.P.

Studying work methods of mechanizers in the peat industry. Torf.prom. 30  
no.8:28-31 Ag '53. (MLRA 6:7)

1. Karinskoye torfopredpriyatiye (for Shabalin, Mikheyev). 2. Kirovskiy  
torfotrest (for Lobanova). 3. Ozeretskoye torfopredpriyatiye (for Sidorov).  
(Peat industry)

SIDOROV, G.P.; RAFAL'SKIY, R.P.

Hydrothermal synthesis of uraninite. Atom. energ. Supplement no.6:  
83-85 '57. (MIRA 11:7)  
(Uraninite)

ACC NR: AP7002595 (A,N) SOURCE CODE: UR/0413/66/000/023/0101/0101

INVENTOR: Fedoseyev, R.Yu.; Vasil'yeva, V.V.; Kon'kov, Yu.A.; Sidorov,  
G.V.; Yakovlev, A.B.; Semenov, A.I.; Drogin, L.V.

ORG: none

TITLE: Pneumatic memory device. Class 42, No. 189233

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no.  
23, 1966, 101

TOPIC TAGS: ~~automatic pressure control~~, pneumatic device, pneumatic  
servomechanism, servosystem, memory case

ABSTRACT: An Author Certificate has been issued for a pneumatic memory device  
containing a servosystem with a memory chamber and a valve. To reduce  
gas leakage from the pressurized chamber, a three-diaphragm two-contact valve  
is added. The connections between valves are shown in Fig. 1. [WP]

Card 1/2

UDC: 681.142.07-525

ACC NR: AP7002595

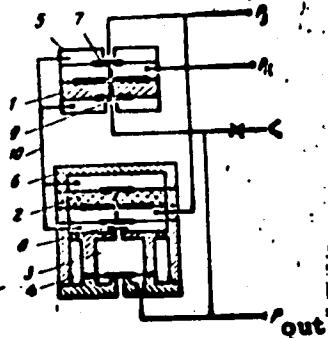


Fig. 1. Pneumatic memory device

1, 2, 3, 5 - Chambers; 5 - three-diaphragm valve; 6 - valve; 7, 8, 9 - contacts; 10 - channel;  $P_3$  - channel of memorized signal;  $P_{out}$  - output channel of servo-system.

SUB CODE: 09, 13 / SUBM DATE: 17Mar65 / ATD PRESS: 5114

Card 2/2

SIDOROV, G.yu., inzh.

Water supply of industrial enterprises in Moscow. Khidrotekh i  
melior 9 no.9:286 '64.

SIDOROV, G.Ya., inzh.

Water supply of the industr' enterprises of the Moscow City  
Economic Council. Vod. i san. tekhn. no.8:17 Ag '64  
(MIRA 18:1)

SIDOROV, I., prof.

"Life of the field" by A.G. Doiarenko. Reviewed by I. Sidorev.  
Nauka i pered. op v sel'khoz 9 no.5:79 My '59.  
(MIRA 12:8)

~~1. Kostromskiy sel'skokhozyaystvennyy institut.~~  
(Agriculture)

SIDOROV, I., prof.

An account of the achievements of our modest agricultural workers  
of the steppes ("Bringing virgin lands under cultivation in the  
semidesert" by S.K.Chaijanov. Reviewed by I.Sidorov). Nauka i  
pered.op.v sel'khoz. 9 no.12:73 D '59. (MIRA 13:4)  
(Kazakhstan--Reclamation of land) (Chaijanov, S.K.)

SIDOROV, I., inzh. (Arkhangel'sk)

What do you think? Okhr.truda i sots.strakh. 4 no.12:19-20 D  
'61. (MIRA 14:11)  
(Industrial accidents--Statistics)

SIDOROV, I.

For economy and thrift; Take care of capital assets of enterprises.  
Fin. SSSR 38 no.1:42-43 Ja '64. (MIRA 17:2)

1. Nachal'nik otdela Pridneprovskogo soveta narodnogo khozyaystva.

SIVOROV, I.

107-57-5-45/63

AUTHOR: Minkina, E., Sidorov, I.

TITLE: A Converter for KBN-49 TV Set (Konverter k televizoru KBN-49)

PERIODICAL: Radio, 1957, Nr 5, pp 41-42 (USSR)

ABSTRACT: A description of a new converter developed "in one of the Moscow scientific research institutes" is presented. The converter is intended to bring channels 4 and 5 within the range of the KBN-49 tv set which is designed for three channels (1, 2, and 3) only. The converter, whose simplified circuit diagram is shown in the article, comprises a one-stage h-f amplifier, a mixer, a heterodyne, and a rectifier. Tubes used: 6Zh1P, 6N3P. A selenium rectifier supplies d.c. to the tubes. Converter amplification factor is about 8-10. Frequency drift on warm-up is 15-20 kc after 1<sup>1</sup>/<sub>2</sub>-2 hours. Details given. There is one figure.

AVAILABLE: Library of Congress

Card 1/1

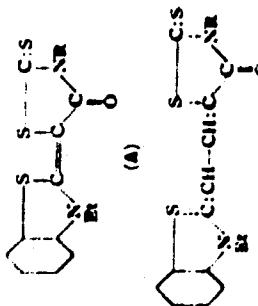
3

Ultraviolet absorption spectra of benzothiazole and some of its derivatives. A. R. Lutskii and I. A. Siderov (S. M. Kirov Chem. Technol. Inst., Kharkov). *J. Gen. Chem. (U.S.S.R.)* 17, 141-4 (1947) (in Russian). Benzothiazole (I) in alc. soln. ( $10^{-4}$  —  $4 \times 10^{-4} M$ ) has 2 absorption bands (molar extinction  $\epsilon$  in parentheses following wave lengths) with max.  $\lambda$  2835 Å. (5100) and 2545 (8000), min. at 2720 (2300) and 3430 (7000). In the presence of 1000 mol. Et<sub>2</sub>NO (per mol. I), the max. are at 2835 (1000) and 2545 (8000), the min. at 2705 (1000) and 2405 (2000). 2-Methylbenzothiazole (II) in alc. shows 3 bands with max. 2815 (1400), 2585 (1800), and 2335 (7700), min. 2975 (1100), 2735 (1400), and 2430 (5500); thus, substitution by methyl causes only splitting of the long-wave band into 2 narrower bands with a distinct lowering of intensity. In I-ethiodide (III) and in II-ethiodide (IV), the characteristic max. and min. of I and II disappear; III ( $10^{-4}$ — $10^{-3} M$ ) shows only one band, max. 2795 (2300), min. 2640 (1010); IV, one band max. 2770 (5400), min. 2800 (2700). 2-Methyl-4,7-dihydrobenzothiazole (V) ( $10^{-3}$  —  $5 \times 10^{-3} M$ ) in alc. begins to absorb at 3670 (100), i.e., at longer  $\lambda$  than II, by 670 Å., and has only 2 bands of its own, max. 3240 (2300) and 2380 (12,000), min. at 2940 (3000), i.e., almost at the very location of the band of II. The curve of 2-methyl-4,7-dimethoxybenzothiazole (VI) has the same form as that of V but its long-wave edge is shifted to shorter  $\lambda$  by 170 Å., and the 2 max., 3160 (8000) and 2820 (15,000), are so shifted by 80 and 40 Å., resp. These shifts correspond to the presence in V and absence in VI, of a hydrogen-bond bridge O—H—N.

N. Thom

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1980 EDITION



3

## ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

**APPROVED FOR RELEASE: 08/23/2000**

CIA-RDP86-00513R001550510008-6"

The temperature dependence of the heat capacity of liquids and the nature of phase transitions of the second kind. S. S. Umarov and I. A. Skorov (S. M. Kirov Chem.-Technol. Inst., Khar'kov). Zh. fiz. khim. 53, No. 1, p. 100-102 (1979).—By means, in an adiabatic calorimeter with a Pt resistance thermometer between 47.401 and 64.549°, the sp. heat  $C_p$  of liquid  $\text{CH}_3\text{CICO}_2\text{H}$  shows peaks at 50.091, 50.098, and 61.215°, corresponding to the regions of anomalies of the surface tension; these temp. regions correspond, within 1°, to the m.p.s. of the enantiomeric polymorphic modifications of  $\text{CH}_3\text{CICO}_2\text{H}$ . The coincidence of the points of phase transitions of crystalline polymorphic modifications with the temps. of phase transitions of the 2nd kind in the undercooled-liquid state agrees with the conception of these transitions as a change of symmetry of phases, i.e. a change of mol. configurations compensated by a change of orientation of mole. giving rise to a new near-range order. This mechanism is thus common to the solid and the liquid state. N. Tishin

SIDOROV, I. A.

Dissertation: "Some Properties of Chloroacetic Acid in Liquid and Supercooled  
Liquid Conditions." Cand Chem Sci, Khar'kov Polytechnic Inst, Khar'kov 1953.  
W-30920

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (XXXXXX)

LUTSKIY, A.Ye.; OBUKHOVA, Ye.M.; SIDOROV, I.A.

Association and concentration dependence of properties of organic  
binary mixtures. Zhur. ob. khim. 28 no.9:2386-2395 S '58.  
(MIRA 11:11)

1. Khar'kovskiy politekhnicheskiy institut.  
(Systems (Chemistry))

SIDOROV, I. I.

"Tight-Threaded Joints of Steel with Steel." Thesis  
for degree of Cand. Technical Sci. Sub 25 Nov. 49,  
Sci Res Inst of Technology and Organization of the  
Aviation Industry.

Summary #2, 18 Dec 52, Dissertations Presented  
For Degrees in Science and Engineering in Moscow  
in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

NEYMAN, S.I., kand.tekhn.nauk; SIDOROV, I.A., inzh.

Advanced technological process for making spinning-ring blanks.  
Trudy VNIIMASH no.1:27-60 '59. (MIRA 13:5)  
(Spinning machinery) (Forging)

SIDOROV, I.A., inzh.; CHIRIKOV, V.T., kand.tekhn.nauk

Case hardening of fluted rollers. Trudy VNIIMASH no.1:212-223  
'59. (Case hardening) (Spinning machinery) (MIRA 13:5)

S/028/60/000/009/002/006  
B015/B058

AUTHOR: Sidorov, I. A.

TITLE: Standardized Parts and Units of Punching Tools for the  
Cold Punching of Sheet Metal

PERIODICAL: Standartizatsiya, 1960, No. 9, pp. 15 - 17

TEXT: A standardization of punching tools becomes necessary in view of the fact that the punching of sheet metal is increasingly applied, and is also used in the manufacture of small batches. A compilation of standards for machine construction "Shtampy dlya kholodnoy shtampovki. Detali i uzly. Konstruktsiya i ispoluitel'nyye razmery" ("Punches for Cold Punching. Parts and Units. Design and Manufacturing Dimensions"), now in the press, was elaborated by the Nauchno-issledovatel'skiy institut tekhnologii avtomobil'noy promyshlennosti (Scientific Research Institute of Automotive Engineering) and compiled in accordance with the machine-construction standards MH (MN) 76-59 "Appliances and Devices for Machine Construction. Group I. Appliances and Devices for Processing by Pressing". In the present paper, a table is given showing the number

Card 1/2

Standardized Parts and Units of Punching Tools for the Cold Punching of Sheet Metal S/028/60/000/005/002/006  
B015/B058

of standards of individual units and parts and giving some relevant explanations. In contrast with GOST (GOST) 7254-58, for example, the new standards provide only one fitting for pressure plates with axially lying columns, and only one guide column instead of two, as prescribed in GOST 7256-54. For punches where no great power is applied, the pressure plates are made from cast iron of the type C4 21-40 (SCh 21-40), and for heavier loads, from C4 24-44 (SCh 24-44) cast iron or 30L (30L) steel. The purity of the lower and upper pressure plates must conform at least to the seventh class according to GOST 2789-59. In accordance with technical demands, the individual parts of the punches are to be made mainly from carbon steels, among them steels 35, 45, Y10A (U10A), as well as Y8A (U8A). The Komitet standartov, mer i izmeritel'nykh priborov (Committee on Standards, Measures, and Measuring Instruments) withdrew the standards for punch parts for cold punching, namely, GOST 7254-58 for pressure plates, GOST 7256-54 for guide columns, GOST 7255-54 for guide bushes, GOST 7257-54 and GOST 7258-58 for stems, on June 1, 1960. There is 1 table.

Card 2/2

SIDOROV, I.A.

Basic principles for the classification of dies, tools and press  
working equipment. Kuz.-shtam. proizv. 3 no.11:1-6 i '61.  
(MIRA 14:11)

(Dies (Metalworking)) (Sheet metal working machinery)

SIDOROV, I.A.

Classification and conventional symbols for tools and devices used in  
presswork. Standartizatsiya 25 no.1313-18 '61. (MIRA 14:3)  
(Forging machinery--Standards)

SIDCRCV, I.A.

Standardization and specialized manufacture of stamps and  
die-casting molds. Standartizatsiia 25 no.8:12-14 Ag '61.  
(MIRA 14:7)  
(Dies (Metalworking)--Standards)

SIDOROV, I.A.

Standardization of technological equipment for pressworking.  
Standartizatsiya 25 no.11:18-21 N '61. (MIRA 14:11)  
(Forging machinery—Standards)

BEREZHOV, A.I., kand.tekhn.nauk; SIDOROV, I.A., inzh.

Method for cementing lost-circulation zones. Nauch. zap.  
Ukrniproekta no.9:66-69 '62. (MIRA 16:7)  
(Oil well cementing)

SIDOROV, I.A.

Standardizing automatic control systems for technological processes  
of cold stamping. Standartizatsiia 26 no.5:18-20 My '62. (MIRA 15:7)  
(Automatic control—Standards) (Sheet-metal work)

SIDOROV, Ivan Aleksandrovich; SHVCHENKO, A.L., red.

[Standardization of technological equipment for metalworking by pressure] Normalizatsiya tekhnologicheskoi osnastki dlia obrabotki davleniem. Moskva, Izd-vo standartov, 1964. 177 p. (MIRA 17:11)

KRIVOBOKOV, R.T.; SIBOROV, I.A.

Using pozzolan cement. Bulletin no.2:11-15 '64.

(MIRA 18:5)

1. Sterlitamakskiy sodovo-tsementnyy kombinat i Tatarskiy  
naftyanoy nauchno-issledovatel'skiy institut.

BEREZHOV, A.E.; SUDOV, I.A.

Patenting high-viscosity and quick-hardening mixture obtained  
by the introduction of dry free-flowing material into cement  
slurry. Neft. Zhurn. no. 1:24-29 Je '64. (MIRA 17:8)

SIDOROV, I.A.; NESHTA, P.I.

Studying the corrosion resistance of cement samples using molds  
at great depths. Burenie no.10:25-28 '64.  
(MIRA 18:6)

1. Tatarskiy neftyanoy nauchno-issledovatel'skiy institut, g.  
Bugul'ma.

RYKOV, A.V.; SIDOROV, I.B.

Highly sensitive capacitative seismograph with visible recording  
on heat-sensitive paper. Trudy Inst. fiz. Zem. no.26:35-92 '63.  
(MIRA 16:11)

L 5159-66 EWT(1)/DNA(h) GW  
ACC NR: AT6000979

SOURCE CODE: UR/2619/64/000/035/0022/0029

AUTHOR: Rykov, A. V.; Sidorov, I. B.  
44.55 44.55

38

B71

ORG: Institute of Physics of the Earth im. O.Yu. Shmidt, AN SSSR (Institut fiziki  
zemli AN SSSR)

44.55

TITLE: Seismographs with new electronic transducers

SOURCE: AN SSSR. Institut fiziki zemli. Trudy, no. 35, 1964, 22-29

TOPIC TAGS: seismograph, seismography, acoustoelectric transducer, seismologic  
instrument 12,44.55 12,44.55

25

ABSTRACT: Contains a detailed description and the circuitry for an improved model of the capacitance transducer developed earlier by A. N. Betchinkin for semi-conductor instruments. Results of tests made with several seismographs are given, including one with a smoked paper recorder designed to record seismic vibrations in a range of periods from 0.1-1.5 sec. with a magnification of about 100,000 (schematics for transducer and amplifier are shown). Orig. art. has: 8 figures, 1 formula.  
[FGB: 1. 1 . . . 5]

SUB CLASS: 53, DC / SUPPL DATE: none / ORIG REF: 003

0901045L

Card 1/1

SIDOROV, Ivan Firsovich; DVOSKIN, Beniamin Yakovlevich; DAVYDOVA,  
Yu.F., red.; RAKITIN, I.T., tekhn. red.

[Settled virgin lands] Obzhitaia tselina. Moskva, Izd-  
vo "Znanie," 1964. 32 p. (Novoe v zhizni, nauke, tekhn-  
nike. I Seriia: Istorija, no.4) (MIRA 17:2)

DVOSKIN, Benjamin Yakovlevich; SIDOROV, Ivan Firsovich; KORNIYENKO, V.,  
red.; KOROLEVA, A., mladshiy red.

[The Virgin Territory; a study in economic geography] Selia-  
nyi krai; ekonomiko-geograficheskii ocherk. Moskva, Izd. vo  
"Mysl', " 1964. 149 p. (MJRA 17:9)

SIDOROV, Ivan Ivanovich; SPIRIN, Aleksandr Konstantinovich; BELOSKURSKIY, G.N..  
red.; YUDOROV, B.M., red.izd-va; KARASIK, N.P., tekhn.red.;  
BRATISHKO, L.V., tekhn.red.

[Operation and maintenance of light log frames] Eksploatatsiya i  
soderzhanie lesopil'nykh ram lehkogo tipa. Moskva, Gos.lesbumizdat,  
1957. 47 p.  
(Saws)

SIDOROV, I.I.

Experience acquired by the best must become available to all. Mo-  
tallurg 9 no.2:32-33 F '64. (MIRA 17:3)

1. Pridneprovskiy sovet narodnogo khozyaystva.

SIDOROV, I. M.

Sidorov, I. M. "Diagrams for the calculation of the heating surface of heating instruments," Sbornik nauch. trudov (Kuybyshevsk. inzh. in-t im. Mikoyana), Issue 2, 1948, p. 159-65.

So: U-3736, 21 May 53, (Metopis 'Zhurnal 'nykh Statey, No. 17, 1949).

L 1479-66 EWT(d)/EPF(n)..2/EWP(v)/EWP(k)/EWP(h)/EED-2/EWP(l) IJP(c) WW/BC  
 ACCESSION NR: AP5021861 UR/0280/65/000/004/0183/0187

AUTHOR: Sidorov, I. M. (Moscow); Korotayeva, I. P. (Moscow)

TITLE: The stability of mechanical systems with multiple degrees of freedom in  
 the presence of correcting devices

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 4, 1965, 183-187

TOPIC TAGS: control system stability, automatic control design, automatic  
 frequency control

ABSTRACT: In an earlier paper B. I. Rabinovich (Izv. AN SSSR, Tekhnicheskaya  
 kibernetika, 1964, no. 4) studied the frequency method investigations of the  
 structural stability of certain mechanical systems in presence of correcting de-  
 vices actuated by a control force. For a certain mechanical system belonging to  
 that class, the present paper establishes the ranges of values of the system's  
 parameters corresponding respectively to structural stability or instability. The  
 closed system is described by the system of equations

$$\ddot{q}_i + \gamma_i^2 q_i = \sum_{j=1}^n a_{ij} q_j + \sum_{n=1}^N b_{in} F_n + c_i g_0, \quad i = 1, 2, \dots, m,$$

Card 1/2

L 1479-66

ACCESSION NR: AP5021861

$$\ddot{r}_n + \sigma_n^2 r_n = \sum_{i=1}^m d_{ni} \ddot{q}_i, \quad q_i = L(p) g_i, \quad n = 1, 2, \dots, k. \quad (0.1)$$

where  $q_i$  and  $r_n$  are the coordinates of the system proper, and  $q_0$  coordinate characterizes the correcting system. The properties of the latter are specified by the amplitude-phase characteristics

$$L(i\omega) = A(\omega)e^{i\varphi(\omega)}, \quad (0.2)$$

where  $A(\omega)$ ,  $\varphi(\omega)$  - single-valued analytic functions over the entire interval of eigenfrequencies of the system (0.1);  $A(\omega)$  is bounded by a certain number  $A_0$ ;  $\varphi(\omega)$  changes its sign not more than once over the interval of the eigenfrequencies of the system and  $\cos \varphi(\omega) > 0$ . The constants  $\gamma_i^2$ ,  $\gamma_n^2$ ,  $a_{ij}$ ,  $b_{in}$ , and  $d_{ni}$  are such that the characteristic equation has purely imaginary roots. The structural stability is established in the dimensionless space of the controlled object parameters. Orig. art. has: 23 formulas and 4 figures.

ASSOCIATION: None

SUBMITTED: 14Jun63

ENCL: 00

SUB CODE: II

NO REF Sov: 001

OTHER: 000

Card 2/2: (JF)

SIDOROV, I. N.

Mbr., Ural Affiliate Acad Sci (-1943-)

Mbr., Mining Geology Institute (-1943-)

"Concerning the Working of Deposits Under Karst in  
the Kizelovskiy Basin," Iz. AK Nauk SSSR. Otdel,  
Takh. Nauk, No. 8, 1943.

BR-52059019

Siderov, I. N.

Siderov, I. N. "The basic problems of underground working of the Ural coal deposits", in  
the collection entitled: Voprosy gornogo dela, Novosibirsk, 1949, p. 53-67, - Bibliog: 9 items.

SC: N-4886, 12 Feb. 1953, (Letopis' Zhurnala 'nykh Statej, No. 2, 1949).

SHEVYLOV, B. N., POSTOV, S. D., BOLOSLOVSKIY, I. S., MOROSHNOV, G. M., RODALEV, I. S.,  
MICHKOV, V. A., SIDOROV, I. N., ZUBRILOV, L. YE., KAPUSTIN, M. G., DOVBA, A. S.

Shevy, Lev Dmitriyevich, 1889-

Concerning the review by Prof. D. A. Strel'nikov, Docents B. S. Lokshin, Ya. Ye. Nekrasovskiy  
and Eng. V. A. Florov on Acad. L. D. Shevyakov's book "Fundamental theory of planning coal  
mines." Ugletkhizdat, 1950(Ugol' No. 3, 1952) Ugol' 27 No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 /1953, Uncl.

SIDOROV, I. N.

Improvement in underground mining methods of Ural coal mines.  
Trudy Gor.-geol.inst. no.27:3-48 '55. (MLRA 9:9)

(Ural Mountains--Coal mines and mining)

SIDOROV, I. N.

Mining in coal mines of the Urals in complex conditions.  
Trudy Gor.-geol.inst. no.27:49-77 '55. (MLRA 9:9)

(Ural Mountains--Coal mines and mining)

SIDOROV, I.N., kandidat tekhnicheskikh nauk.

Mine dust control in mines of the Kizel Coal Basin. Sbor. rab.  
po sil. no.1:12-25 '56. (MLRA 10:2)

1. Gorno-Geologicheskiy institut Ural'skogo filiala Akademii  
nauk SSSR.

(KIZEL BASIN--MINE DUST)

**ATTACH:** Solominov, M.  
**TITLE:** Coal Mine Sudden Ejections of Coal and Gas From  
 Coal Mine (Soviet) vyosokiy ugly i gaza  
 poznyakh skazkach  
 Conference at the Institute of Mining of the Ac.Sc.  
 USSR (Soviet) v Institute for coal  
 Academii Nauk SSSR

**EDITORIAL:** Izdatel'stvo Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh  
 Nauk, 1958, No. 4, pp. 155 - 156 (USSR)

**APPROX:** On February 17 - 21, a conference was held at the  
 Institut Gorispol'zha Akademii Nauk SSSR (Mining Institute  
 of the Ac.Sc.USSR) on the results and prospects of  
 research work on combating sudden ejections of coal and  
 gas and coal gasification in mines. Members of the General  
 Council for combating sudden ejections of coal and gas,  
 representatives of scientific research and project  
 institutes and of higher teaching establishments parti-  
 cipated in the conference. After a brief opening speech  
 by Academician G.P. Stochinov, the following papers were  
 read at the conference: "Investigation of Local Methods of Preventing  
 Sudden Ejections of Coal and Gas in Preparatory Workings  
 and in Drawing (V.F. Khodot); "Development of a  
 Classification of Measures for Safe Mining of Coal in Stopes  
 in Unprotected Zones of Seams Which Are Dangerous From  
 the Point of View of Sudden Ejections of Coal and Gas"  
 (G.N. Kricheravsky); "Planning, safe and Productive  
 Working of Individual Steeply Sloping Seams Which  
 Have an Inclination of 10-15% to Prevent Sudden Ejections of Coal  
 and Gas" (B.S. Lekhman); "Developing an Effective System  
 of Protective Seams (B.S. Lekhman); "Systems of Working  
 of the Protective Mine of the L.A. Artem'ev Trust of  
 Individual Seams of the Central Donbass region" (A.P.  
 Borisev); "Safety of Sudden Ejections of Coal and Gas  
 in Coal Mines of the Terekhovskiy district" (V.V. Sloboda);  
 "Sudden Ejections of the Terekhovskiy district" (V.V. Sloboda);  
 "Safe and Effective Methods of Working  
 Coal Seams Of the Terekhovskiy district" (V.V. Sloboda);  
 "Sudden Ejections of Coal and Gas" (V.V. Sloboda); "Investigation of the  
 Tendency to Ejections of Coal or of the Maknevskiy anthracite

Cart 1/a

**Sudden Ejections of Coal and Gas in Preparatory Workings**  
 and in Drawing (V.F. Khodot); "Development of a  
 Classification of Measures for Safe Mining of Coal in Stopes  
 in Unprotected Zones of Seams Which Are Dangerous From  
 the Point of View of Sudden Ejections of Coal and Gas"  
 (G.N. Kricheravsky); "Planning, safe and Productive  
 Working of Individual Steeply Sloping Seams Which  
 Have an Inclination of 10-15% to Prevent Sudden Ejections of Coal  
 and Gas" (B.S. Lekhman); "Developing an Effective System  
 of Protective Seams (B.S. Lekhman); "Systems of Working  
 of the Protective Mine of the L.A. Artem'ev Trust of  
 Individual Seams of the Central Donbass region" (A.P.  
 Borisev); "Safety of Sudden Ejections of Coal and Gas  
 in Coal Mines of the Terekhovskiy district" (V.V. Sloboda);  
 "Sudden Ejections of the Terekhovskiy district" (V.V. Sloboda);  
 "Safe and Effective Methods of Working  
 Coal Seams Of the Terekhovskiy district" (V.V. Sloboda);  
 "Sudden Ejections of Coal and Gas" (V.V. Sloboda); "Investigation of the  
 Tendency to Ejections of Coal or of the Maknevskiy anthracite

Cart 2/a

**Deposits and Justification of Particular Methods of  
 Mining Thin Coal (V.I. Sloboda); "Method of Detection  
 of Sudden Ejections of Coal and Gas in Regard to Sudden  
 Ejections in Seams of the Terekhovskiy Mining Region"  
 (O.I. Chuboy); "Development of Geophysical Methods  
 and Apparatus for Estimating the Per-  
 centage of Sudden Ejections of Coal and Gas" (V.G. Anay-  
 shev); "Results of Scientific Investigations on the  
 Problem of Combustion Shocks in Coal Mines During 1957-  
 1960 (V.T. Vashchuk); "On the State of Designing and Testing  
 Special Machines and Equipment for Passing Through  
 galleries in Seams Which Are Dangerous From the Point of  
 View of Ejections of Coal and Gas" (A.B. Kogan);  
 "On the Basis of the Presented Papers" (V.V. Sloboda);  
 "The Participants in the Conference Concluded that in  
 1957 progress was achieved in the development of new  
 methods of combating sudden ejections of coal and gas.**

Some of the interesting items discussed at the  
 conference are briefly summarized.

SIDOROV, I.N., kand. tekhn.nauk

Main aspects of efficient underground mining methods for Ural  
coal deposits. Trudy Gor.-geol. inst. UFAN SSSR no.31:9-29 '58.  
(MIRA 12:9)  
(Ural Mountain region--Coal mines and mining)

SIDOROV, I.N., kand. tekhn. nauk; SUNGURCIA, Z.N.; SHCHUKINA, N.A.

Study of gases in Ural coal deposits and amount of methane emanation  
in mines. Trudy Gor.-geol. inst. JFAN SSSR no.31:59-82 '58.  
(MIRA 12:9)

(Ural Mountain region- Mine gases)

SIDOROV, I.N., kand. tekhn. nauk; FEDOROVA, G.Z.; SHEINA, Z.G.

Prevention of endogenous fires in Ural coal mines. Trudy Gor.-  
geol. inst. UFAN SSSR no.31:97-122 '58. (MIRA 12:9)  
(Ural Mountain region--Mine fires)

SIDOROV, I.N.

Mining Kizel Basin deposits at great depths. Trudy Gor.-geol.  
inst. UFAN SSSR no. 41:5-33 '59. (MIRA 13:5)  
(Kizel Basin--Coal mines and mining)

SIDOROV, I.N.

Use of hydraulic coal mining in Ural Mountain coal mines. Trudy  
Gor.-geol.inst. UPAN SSSR no.41:77-98 '59. (MIRA 13:5)  
(Ural Mountains--Coal mines and mining)  
(Hydraulic mining)

BUTKEVICH, Roman Veniaminovich, kand.tekhn.nauk; SIDOROV, Ivan Nikolayevich,  
kand.tekhn.nauk; YACHMENOV, Viktor Ivanovich, inzh.. Prinikali  
uchastiye: SERGEEV, P.N., kand.tekhn.nauk; BUTKEVICH, G.R., inzh.;  
TEREŠKIN, S.V., inzh. GAPANOVICH, L.N., otv.red.; ZHUKOV, V.V.,  
red.izd-va; SHILYAR, S.Ya., tekhn.red.; GALANOVA, V.V., tekhn.red.

[Use of the underground method for the mining of Ural coal deposits]  
Razrabotka ugol'nykh mestorozhdenii Urala podzemnym sposobom. Moskva,  
Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 323 p.

(MIRA 14:1)

(Ural Mountains--Coal mines and mining)

SIDOROV, I.N., kand.tekhn.nauk

'Control of coal dust in the working of seams subjected to bumps  
and sudden outbursts of coal and gas. Sbor. rab. po silik. no.2:  
15-27 '60. (MIRA 14:3)

1. Gorno-geologicheskiy institut Ural'skogo filiala AN SSSR.  
(MINE DUSTS)

SIDOROV, I.N., inzh; KUZNETSOV, A.V., inzh.

Boring with a sinker drill without axial force applied on the bit.  
Gor. zhur. no. 6:72 Je '61. (MIRA 14:6)

1. Gorno-geologicheskiy institut Ural'skogo filiala AN SSSR.  
(Rock drills)

KHRUSHCHEV, G.N.; KUKLIN, I.S. & SIDOROV, I.N.

Study of the hydraulic breaking of coal in a stope and the parameters  
of the mining system for a steep seam. Trudy Inst. gor. dela UFAN SSSR  
no.3:29-38 '62. (MIRA 16:3)  
(Kizel Basin--Hydraulic mining)

SIDOROV, I.N.; KUKLIN, I.S.; KHRUSHCHEV, G.N.; SHTUKATUROV, M.M.; ROZOV,  
B.V.; BUIKOV, V.Ye.; VANYUSHIN, N.M.; GICHKO, V.A.; SUMIN, A.A.

Hydraulic breaking of hauls in the Kizel Basin coal mines. Ugol'  
37 no.3:16-18 Mr '62. (MIRA 15:2)

1. Gornogeologicheskiy institut Ural'skogo filiala AN SSSR (for  
Sidorov, Kuklin, Khurshchev, Shtukaturov). 2. Kombinat Kizelugol'  
(for Rozov, Budkov, Vanyushin, Gichko, Sumin).  
(Kizel Basin--Hydraulic mining)

BUDANOV, M.D.; SIDOROV, I.N.

Hydrogeological conditions of the Kizel coal basin and some  
problems of its further development. Trudy Inst.geol. UFAN SSSR  
no.62. Gidrogeol.sbor. no.2:161-170 '62. (MIRA 16:5)  
(Kizel Basin—Mine water)

SIDOROV, I.N.; KUZNETSOV, A.V.

Raising the efficiency of boring and blasting during mining in  
hard rock. Trudy Inst.gor.dela UFAN SSSR no.7:125-129 '63.  
(MIRA 17:3)

YEZHOU, Yu.A.; SIDOROV, I.N.

Determining water inflows and measures for controlling them in the  
mines of the Kizil Basin. Trudy Inst. geol. UFAN SSSR no.69. Gidro-  
geol. sbor. no.3:191-202 '64. (MIR' 17:11)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6

URSS, N.Y., SIGHTS, U.S.

Efficiency of boring and blasting in the surface mining of coal  
in Kizel Basin mines. Trudy 15<sup>th</sup> (Gorn.) no. 4t75-29 '64.  
(MIRA 17:10)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6"

SIVOLBAKOV, I.A.; TRETIN, G. Ya.; FEDOROV, V. V.; MIBOROV, I.N.

Method of determining the economic efficiency of manless stop-  
ping in coal seams. Izduly IGD (Sverd.) no.8.15-23 '64.  
(MIRA 17:10)

SIDOROV, I.N.; DUDYREV, I.Ya.; LOPATIN, G.Ye.; SHCHERBAKOV, I.A.

Mining steep seams with diagonal pillars and a manless stop-  
ping of coal. Trudy IGD (Sverd.) no.8:31-38 '64.

(MIRA 17:10)

KETOV, B.I., Sov. Min., L.M.

Manifestation of rock bumps during the operation of mining machinery in longwalls of the Kizel Basin. Trudy MG (award.) no. 8:69-76 '64. (MIA) 17:16

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6

RECORDED AND INDEXED  
BY THE LIBRARY OF CONGRESS

SEARCHED FOR THE RECORDS OF THE LIBRARY OF CONGRESS  
AND INDEXED BY LIBRARY STAFF

MAR 1971

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6

FEDOROVKA, G.G.; SIBEROW, I.N.

Effect of fire preventives on the kinetics of coal oxidation.  
Trudy IGD (Sverd.) no.8:123-131 '64.

(MIRA 17:10)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550510008-6"

SIDOROV, I.P.; LIVSHITS, V.D.

Kinetics of ammonia synthesis in isothermal conditions. Zhur.fiz.khim.  
21 no.10:1177-1181 O '47. (MLRA 7:1)

1. Gosudarstvennyy institut azotnoy promyshlennosti, Moskva.  
(Ammonia)

SIDOROV, I. B.

## PROCESSES AND PROPERTIES INDEX

ED AND 4TH 68049

2

~~AMERICAN METALLURGICAL LIBRARIES CLASSIFICATION~~

卷之三

**APPROVED FOR RELEASE: 08/23/2000**

**CIA-RDP86-00513R001550510008-6"**

USSR/Chemistry - Ammonia Synthesis

Apr 92

"Kinetics of the Synthesis of Ammonia Under Isothermal Conditions," V. D. Livshits, I. P. Sidorov, Moscow

"Zur Physik" Vol XVI, No 4, pp 538-541

Investigated kinetics of ammonia synthesis at pressures of 10, 100, 200, 300, 400, 500 atm and vol velocities of 30,000, 60,000, 90,000, 120,000 hr<sup>-1</sup> at 500° under strictly isothermal conditions.

Demonstrated that the velocity consts k. calcd by means of M. I. Tsvirk and V. N. Pyzhev's eq

21727

(using the form which is applicable to low pressures) drop as the pressure is increased. The dependence of k on pressure is in agreement with M. I. Tsvirk's theoretical eqs of the kinetics of ammonia synthesis at high pressures. Values of k recalcd under consideration of the pressure effect show a satisfactory constancy at changing pressures.

SIDOROV, I. P.

KAZARNOVSKIY, Ya.S., kand.khim.nauk; SIDOROV, I.P., kand.tekhn.nauk;  
KAZARNOVSKAYA, D.B., kand.khim.nauk

Equilibrium of homogeneous gas reactions at high pressure.  
Trudy GIAP no.7:21-25 '57. (MIRA 12:9)  
(Phase rule and equilibrium) (Gases)

SHISHKOVA, V.N., kand.khim.nauk; SIDOROV, I.P., kand.tekhn.nauk; TEMKIN,  
M.I., doktor khim.nauk

Study of the kinetics of ammonia synthesis by the recirculation  
process at high pressures. Trudy GIAP no.7:62-78 '57.  
(MIRA 12:9)

(Ammonia)

RUSOV, M.T., doktor khim.nauk; SIDOROV, I.P., kand.tekhn.nauk; STREL'TSOV,  
O.A., kand.khim.nauk; KURACHY, G.A.; THETYAK, V.G.; KORYAKINA, Ye.V.

MacrokINETICS of the catalytic synthesis of ammonia at high  
pressures in a recirculation system. Trudy GIAP no.7:101-120  
'57. (MIRA 12:9)

(Ammonia) (Catalysis)

SIDOROV, I.P., kand.tekhn.nauk; ANDREICHEV, P.P.

Simplified method for measuring temperatures in the catalyst  
case with countercurrent tubes insulated at different lengths.  
Trudy GIAP no.7:224-230 '57. (MIRA 12:9)  
(Catalysis) (Temperature--Measurement)

SIDOROV, I.P., kand. tekhn.nauk; ISTOMINA, K.Ye., kand. tekhn.nauk

Investigating the regeneration of catalysts in ammonia synthesis.  
Trudy GIAP no.8:69-75 '57. (MIRA 12:9)  
(Ammonia) (Catalysts)

25(5)  
AUTHORS: Sidorov, I. P., Shishkova, V. N.

06233  
SOV/64-59-6-25/28

TITLE: Pressure Regulator

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 6, pp 541 - 542 (USSR)

ABSTRACT: Investigations of catalytic and other processes in passing media have to be carried out at constant pressure in the reaction vessel. For this purpose I. P. Sidorov designed a special pressure regulator (Fig.). The apparatus comprises a pressure vessel with the gas, an electromagnetic valve, a pressure-equalizing vessel, (for the pressure), a pressure regulator, and the reaction vessel. The pressure regulator basically consists of 2 glass vessels the lower of which contains mercury; a platinum wire leads through the connecting tube of the two vessels. At a pressure increase the mercury mounts into the upper glass vessel and by contacting the platinum wire closes a circuit, which in turn closes the electromagnetic valve and thus stops the gas supply. When the pressure decreases below the desired value, the valve opens and gas from the pressure vessel pours into the reaction vessel. The pressure regulator described in this paper is provided for working at pressures

Card 1/2

Pressure Regulator

06233  
SOV/64-59-6-25/28

from 1 - 1000 atm. in the case of a pressure decrease in front of and behind the valve of up to 200 - 300 atm. The apparatus is used in the laboratories of the nitrogen- and nitrogen fertilizer industry. There is 1 figure.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy institut azotnoy promyshlennosti i produktov organicheskogo sinteza (State Scientific Research Institute of the Nitrogen Industry and Products of Organic Synthesis)

Card 2/2